PRELIMINARY ASSESSMENT REPORT

RICHMOND ICE COMPANY
RICHMOND, MADISON COUNTY, KENTUCKY

BY
JON MAYBRIAR
UNCONTROLLED SITE SECTION
DIVISION OF WASTE MANAGEMENT
SEPTEMBER, 1987

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HISTORY OF SITE

The Richmond Ice Company is located at 816 Heath Street in Richmond, Kentucky (Appendix C). The plant commercially manufactures ice for Richmond and surrounding areas. The operation began in 1959 and is currently owned by Marsh Orwtenburger and Marylin Williams. Prior to 1973, the ice company utilized a lake on their property as a water source for making ice, but in May 1973 switched to a municipal water supply for their ice production. The lake was to be filled in with dirt only and required no solid waste permit. On April 13, 1973, a site investigation by KDWM personnel found a small oil slick on the lake, a slimy substance on the bank, and some municipal garbage around the lake (Appendix D). By May 1978, the lake had been filled and graded. On the August 24, 1987, Preliminary Assessment (PA) site visit, no municipal garbage or industrial waste was observed. The site appeared to be completely reclaimed with adequate cover and vegetation over the site (Appendix E). If industrial waste was taken to this site, toluene would be a typical contaminant and resulted in it being chosen for ranking purposes.

ROUTE OF CONTAMINATION

The site is located on the border of the Inner Bluegrass and the eastern Knobs Region and is approximately three (3) acres in size and relatively level. Soils at the site are the Caleast Series and are the deep well-drained soils that form in residuum from limestone. Due to high fertility and permeability, soils around the site have a high crop production rate.

Rocks in the area are in the Upper Ordivician System and bedrock can be found eight (8) to ten (10) feet beneath the surface in the Ashlock Formation. This formation consist of alternate layers of dolomite, shale, and limestone (USGS-1966).

The aquifer of concern can be found 125 feet beneath the site in the Maysville Group. Wells in this group yield 100 to 500 gallons per day (gpd) in broad valley bottoms and along streams but almost no water to wells on hillsides or ridges (USGS-1960).

POSSIBLE AFFECTED POPULATION AND RESOURCES

Population within a one (1) mile radius of the site is estimated to be 21,907 people. There are an estimated 30,054 residents living within a three (3) mile radius and 30,746 people residing within a four (4) mile radius of the site (Appendix F).

Drinking water for Richmond is supplied by Richmond Water, Gas and Sewage Works. Their water intake is upgradient on the Kentucky River. There are no surface water intakes fifteen (15) mile downgradient of the site. An estimated 217 residents utilize groundwater within a three (3) mile radius of the site (Appendix G).

REFERENCES

Kentucky Department of Economic Development, "Resources for Economic Development Richmond, Kentucky". The Richmond Chamber of Commerce, 1986.

Kentucky Division of Waste Management Files on Richmond Ice Company.

USGS, 1960. Availability of Groundwater in Clark, Estill, Madison and Powell Counties.

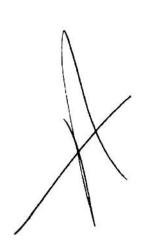
USGS, 1967. Geological Map of the Union City Quadrangle, Madison and Clark Counties, Kentucky.

USGS, 1952. Photorevised 1979, Moberly Quadrangle, 7.5 Minute Series Topographic Map.

USGS, 1965. Photorevised 1979, Richmond North Quadrangle, 7.5 Minute series topographic Map.

USGS, 1965. Photorevised 1979, Richmond South Quadrangle, 7.5 Minute Series Topographic Map.

USGS, 1952. Photorevised 1979, Union City Quadrangle, 7.5 Minute Series topographic Map.



≎EPA	POTENTIAL HAZAR PRELIMINARY PART 1 - SITE INFORMAT	ASSESSMENT	LEDENTIFICATION DI STATE DE SITE NUMBER KY New Site	
IL SITE NAME AND LOCATION				
DI SITE NAME (Lagat assumen, or descriptive name of stee)	NO.	02 STREET, ROUTE NO., OR SPECIFIC LOS	CATION IDENTIFIER	
Richmond ILE C	empany	816 Heath S	street	
SI CITY		04 STATE 06 ZP CODE DE COUNTY	107 COUNTY OS CONS	
Richmond		Ky 40475 MG	dison 15/ 05	
37 44 26.2	84,7€ 92.€			
OFF BIG HILL		CHMOND ICE PLA		
III. RESPONSIBLE PARTIES				
Marsh Orwtenburg		352 High		
SIGHTY CHERT STORY	,		PHONE NUMBER	
Richmond			1623-6950	
owner Marylin Will	ians	103 B.b-0-/10	k	
Richmond		아이 경기 경기 없다는 그리자 이 아이가 되었다.	PHONE NUMBER 1624-4589	
13 TYPE OF OWNERSHEP (Chest and			SMADDING SERVER STREET ON THE SERVER	
DF. OTHER:	(years) usual	C. STATE DD.C	OUNTY DE MÜNÖPAL	
(Speedy) 14 OWNER/OPERATOR NOTIFICATION ON FILE (Creed of that apply)				
A RCRA 3001 DATE RECEIVED:	1000 OF 100 TO TO TO TO 100 OF	LED WASTE SITE CONCLA 180 81 DATE	MECEIVED: 1 C. NONE	
IV. CHARACTERIZATION OF POTENTIAL	HAZARO			
OT ON SITE INSPECTION EVES DATE 08/24/97 INO MONTH DAY YEAR	BY (Check of Pict steps) I A. EPA I S. EP I E. LOCAL HEALTH OFF	ICIAL D.F. OTHER:	D. OTHER CONTRACTOR	
	CONTRACTOR NAME(S):			
OZ SITE STATUS (Check and)	IKNOWN 03 YEARS OF OPE	973 1978	□ UNICHOWN	
Oily & Slimy Substances noted on bank of pond being filled with garbage. Os description of potential Hazaro to Environment and con propulation Unknown				
V. PRIORITY ASSESSMENT				
O1 PRIORITY POR INSPECTION (Cheek and, 2 high or medium is alreaded, complete Part 2 - Union information and Part 2 - Description of Historians Conditions and Incolaring A. HIGH B. MEDIUM C. LOW D. NONE Display contain required Proposition required Proposition required Display contain required Display contain recorded, completed purposition forms Display contain recorded purposition forms Display contain				
VL INFORMATION AVAILABLE FROM				
DI CONTACT	02 OF (Agency Organ	teritori	03 TELEPHONE NUMBER	
March Glancy	KDW	Field office	1 606) 794-663	
1 100 1	S AGENCY KYNK EPC	DIV of Waste 07 TE	DEPHONE MANBER OR DATE	
Jon Maybria	KDWM	MST PA/SI CERLA	MONTH DAY YEAR	

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

LIDENTIFICATION

OI STATE DO SITE NAMED

KY Hew Sike

				E INFORMATION			Y Neu	, 3, 2
	TATES, QUANTITIES, AF							
DA BOLD DA POWOS DE ROMOS DE BLUDG DE BLUDG	E U Q QAS	TONS CUBIC YARDS	ınka-un	G3 WASTE CHARACTI G A. TOIGE G B. CONNO G C. RADIOA G D. PERSIS	OF SOU	CTIQUE	C L HONLY D J EXPLOY C R. REACT C L HOOM D M. HOT M	ME PATIBLE
	Resoly	NO. OF DRUME						
WASTE T	YPE							
ATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS			
SLU	SLUDGE							
OLW	OLY WASTE		unknown					
80L	SOLVENTS							
PBD	PESTICIDES							
occ	OTHER ORGANIC CH	NEMICALS						
IOC	MORGANIC CHEMIC	ALS		DIVANORUS — A STATE OF THE STAT				
ACD	ACIDS							
BAS	BASES							
MES	HEAVY METALS							
	OUS SUBSTANCES (See A							
CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DISP	OSAL METHOD	05 CON	CENTRATION	CONCENTRATIO
						↓		
	unknown							
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	CKS raw Assures to CAS Runder							1950 (2001) 12
CATEGORY	01 FEEDSTOCK	NAME	02 CAS NUMBER	CATEGORY	01 PEEDSTO	OCK NAME		OS CAS HUMBE
FD8				F06				
FD8				FD6				
FD8	<del></del>			FOS				
FD8				FDS				

### POTENTIAL HAZARDOUS WASTE SITE

L DENTIFICATION

SHA		YARY ASSESSMENT ZARDOUS CONDITIONS AND INCIDENTS	KYIN	lew SitE
B. HAZARDOUS CONDO	DOME AND INCIDENTS			
01 IZ'A GROUNDWATE 03 POPULATION POTEN	R CONTAMBATION	02 D'OBSERVED (DATE: 08-2/- \$7) 04 NARRATIVE DESCRIPTION	O POTENTIAL	D ALLEGED
2/7 Peo 01 26 SURFACE WATT 03 POPULATION POTEN Estimatel	pop. For 1987. Popula	a 3 m:/e radius of site ( 02/2008SERVED (DATE 04-03-1973) 04 HARRATIVE DESCRIPTION tin in 1973 was considerable	os.ng grande potemae / less,	noter for district
01 C C. CONTAMINATI	ON OF AIR	02 D OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	D POTENTIAL	D ALLEGED
unknow				
01 0 0. FIRE/EXPLOSE 03 POPULATION POTES	VE CONDITIONS INTIALLY AFFECTED.	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	O POTENTIAL	□ ALLEGED
01 Ø E DIRECT CONT	ACT 2875	02 ET DESCRIVED (DATE: 08-2/- 87) 04 HARRATIVE DESCRIPTION 4) mile padius of the	O POTENTIAL	D ALLEGED
		02 DOBSERVED (DATE) 04 NAMPATIVE DESCRIPTION UES FILLE with garbage		D ALLEGED
01 26 OPENKING WA 03 POPULATION POTE 30/ Peop within a	petrally affected: 30/ she whilse wells come of mark redis 21	02 DOBSERVED (DATE	E water (3) mik	□ ALLEGED
01 DH. WORKER EX 03 WORKERS POTEN 1001 C	TIALLY AFFECTED:	02 OBSERVED (DATE:) 04 MARRATIVE DESCRIPTION	POTENTIAL	C ALLEGED
01 121 POPULATION I 03 POPULATION POTE	exposure nurve 28,795 entrally affected: 28,	02.5-OBSERVED (DATE:	[] POTENTIAL	C) ALLEGED

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-	
v	$\Box$

## POTENTIAL HAZARDOUS WASTE SITE

I & EPA	PRELIMINARY ASSESSMENT		SITE MANGED
PART 1. DES	CRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	T KY	New Six
		<u> </u>	
B. HAZARDOUS CONDITIONS AND INCE	DENTS (Commond)		
01 ET J. DAMAGE TO FLORA 04 NAVIPATIVE DESCRIPTION	02 POSSERVED (DATE: 03-24-97	D POTENTAL	D ALLEGED
None observed			
01 C K. DAMAGE TO FAUNA 04 NAPPATIVE DESCRIPTION (History remotes of	02 - OBSERVED (DATE:)	O POTENTAL	□ ALLEGED
unknown			
91 D L CONTAMINATION OF FOOD CHAIN 94 NAMEATIVE DESCRIPTION	02 D OBSERVED (DATE:)	- POTENTIAL	□ ALLEGED
unknown			
01 I M. UNSTABLE CONTAINMENT OF WAS	STES 02   OBSERVED (DATE: )	C POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARPATIVE DESCRIPTION		0
un known			
01 D N. DAMAGE TO OFFSITE PROPERTY 04 NARMATIVE DESCRIPTION	02 - OBSERVED (DATE:)	D POTENTAL	O ALLEGED
none observed			
01 D O. CONTAMINATION OF SEWERS, STO 04 MARRATIVE DESCRIPTION	ORM DRAINS, WWTPs 02   OBSERVED (DATE:)	D POTENTIAL	O ALLEGED
none observed			
01 T P. BLEGAL UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION		D POTENTAL	□ ALLEGED
A and behind the	ice company was filled with got	use begin	n.h.)
in 1973 who 1988.	ice company was filled with god		/
06 DESCRIPTION OF ANY OTHER KNOWN, P	POTENTIAL, OR ALLEGED HAZAROS		
untroun			
	=======================================		
IL TOTAL POPULATION POTENTIALLY A	VFFECTED:		
IV. COMMENTS			
V. SOURCES OF INFORMATION IC40 specific	information in the state of state of the sta		is.
KYDWM Files			

	CRITICAL HRS FACTOR DOCUMENTATION FORM DATE: 8-2/-87
ΞĦ	E NAME: Richmond ICE Company
<b>`</b> A	ID 1: New Site REVIEWER: Jan Maybria
	Is an observed release documented (background and site samples are available and the site is shown to be the source of the contamination) or is one likely?
,	GROUNDWATER: Yes No Likely SURFACE WATER: Yes No Likely Groundwater info source: KY PLAN Files Surface water info source:
	What is the depth at the site to the shallowest aquifer used locally for drinking water?
	Depth: 30 to 35' Known Estimated Unknown
	What is the distance to surface water from the hazardous waste?
	Distance: 500' Known Estimated Unknown Source: USGS 1965 - Richmond South Outdoork 7.5 mink Senie Top M
4)	What are the most toxic/persistent chemicals at the site: Unknown
	Source: KYDWA Files
	Source: KYDWA Files
55500	What is the hazardous waste quantity?
	Quantity: Known Estimated Unknown
6)	What is the distance to the nearest <u>public</u> water supply well using the aquifer of concern and what is the population served?
	Distance: Known Estimated Unknown Fource: Unknown Unknown Estimated Unknown
7)	What is the distance to the nearest <u>private</u> water supply well using the aquifer of concern and what is the population served within 3 miles?
	Distance: 1. / m:/es Known Estimated / Unknown Population: 4 people Known Estimated / Unknown Source: Us(-5) 1965 - Richard South Quedrage 7.5 minute Series Topa Mag
3)	What is the distance to the nearest downstream surface water intake and the population served?
	Distance: 7/5 miles Known Estimated Unknown Unknown Unknown

#### REGION IN ECEMANDY LOFTCA, CAREALIONSTAINE FOR THELITY SCHEETING

site Hame Richmond Ice Company		
city Richard State Ky		
Facility I.D. Number New Site		
Type of Facility: Generator Transporter T	ISD	
I. KCRA APPLICABILITY	12	
У	ves no	0
Does the facility have RCRA interim status?		7
Does the facility have a final or post-closure permit? If so, date issued		/
Is the facility a non-notifier that has been identified by States or EPA?		_
Is the facility a known or possible protective filer?		_
Have RCRA wastes been stored onsite for longer than 90 days since November 19, 1980?		_
Have RCRA wastes been disposed onsite since November 19, 1980?		/
STOP HERE IF ALL ANSWERS TO QUESTIONS IN SECTION I ARE	CM	
II. FINANCIAL STATUS	es no	)
Is the facility owned by an entity that has filed for bankruptcy under federal laws (Chapter 7 or 11) or State laws?	<del>.</del>	
If yes, what has it filed under?		
Chapter 7 Chapter 11 Other		

111.	ETHORCHWEAT.		4
	Para status	yes .	กว
	The the facility lost authorization to operate via LAIS, 3005(d) panult denial, 3005(h) 33 termination, 3005(d) penult revocation?		
	The the facilities interim states is a tensionted via another mechanism (i.e. administrative termination)?		
rv.	CERCIA STATUS		
	What CERCLA financed remedial or memoral activities have at the site? (RI/FS, RD/RA, OWM, forward planning, and include enforcement or PA/SI activities).	been ini removal;	tiated does not
v.	Enforcement Status	yes	no
	In general, would you characterize the facility as demonstrating an unwillingness to undertake corrective action based on prior State, CERCLA or RCRA actions?		
	If yes, please describe and cite the authorities exercis	ed.	
	×	yes	no
	Is the owner/operator a party to any enforcement action at the site?		
	If not, why not?		

Are any PRPs (including owner/operators) undertaking newedial studies or action in response to CERCIA enforcement authorities? What is the extent/type of work that has been completed (RI/RS, etc.) and sho (generators, owner/operator, etc.) is conducting the work?



#### SITE SCREENING SUMMARY

Site Name: Richmond Ice Company				
EPA ID 1: New Site				
Reviewer Name: Jun Mayboia Date: 08-21-87				
NPL RCRA Fed. Fac "Low Priority" Landfill				
NFA reason:				
II. LEAD: Pund Enforcement Unknown				
III. REMOVAL: Needed reason:				
Completed (score using preremoval conditions)				
IV. HRS SCORE: 8.35 observe relas Confidence: high medium low /				
v. LOCATION: Latitude: 37°44′26″.2 Longitude: 8176′03.5				
V. INFORMATION NEEDED: (Check information needed to determine disposition)				
A. Preliminary Assessment (Notes/sources for future reference)				
1. RCRA Status Information  2. Observed Release  3. Target Information  4. Distance to Surface Water  5. Depth to aquifer of concern  6. Waste identity  7. Razardous waste quantity  8. Others (list)				
B. Site Investigation				
1. Waste identity 2. Distance to surface water 3. Slope/intervening terrain 4. Containment 5. Observed release (surface) 6. Observed release (ground) 7. Hazardous waste quantity 8. Others (list)				

#### SITE DISCOVERY FORM

#### Part 1: Information mecessary to add a site to CERCLIS

ACTION: A			
EPA ID:			
SITE NAME:	Richmond Ice Plant	SOURCE:	(R=EPA, T=STATE)
STREET:	Big Hill Avenue and Heath	CONG DIST: 05 (optional)	
CITY:	Richmond	ZIP: 40475 -	
	Madison		
LATITUDE: _	37 44' / 26" LONG 1 TUDE	84 / 1 (optional	D
INVENTORY I	ND: Y REMEDIAL IND: Y REMO	VAL IND: N FED FAC IND:	N
RPM NAME: _	RPM PHO	NE (EP	A Project Officer
SITE DESCRI	PTION: (optional)	5	
	Off Big Hill Avenue behind Richmo	ond Ice Plant	
•			
•••••			
	Part 2: Other site informat	llan.	
REPORTED:	IRST / REPORTE	BY:	·
	LISTING:		
	Questionable fill for small lake	-Inspector observed oil slick	and oil on banks-
	other slimy substances dumped in		
		***************************************	
,			



#### HRS SCORE SHEET

DATE: 8-21-87

SITE NAME: Richmon	I Ice Con	noal			
PA ID 1: New Site REV		My	pur.		
TRS FACTOR SCORES		Score	Default	Known	Est imate
1) Toxicity/persistence (TP) 2) Waste quantity (WQ) 3) Containment (Groundwater) 4) Depth to aquifer of concer 5) Distance to nearest well/p 6) Containment (Surface Water 7) Distance to surface water 8) Distance to surface intake	m (D _{ac} ) copulation (DP _g ) c) (C _{BM} ) (D _{SM} )	G	none (1) (3) (6) none (3) (6) none	= = = =	
S GROUNDWATER ROUTE SCORING:					
<pre>1) If observed release:</pre>	$S_{GW} = \frac{(TP + WO)}{12.}$	(DP _g + 9)	(10) (15	<u>s)</u> •	11.77
) If no observed release: SURFACE WATER ROUTE SCORING	$S_{gw} = \frac{(D_{ac} + 7)}{(11)(10)}$	(TP + WQ) 573.3 (15) (3)	(DP _g + 9)	(C _D .) =	8.63
If observed release:	$S_{SW} = \frac{(TP + WO)}{14}.$		(10) (4,	<u> </u>	(,29
If no observed release:	S _{SW} = (D _{SW} + 5)			(C ₂₄ ) =	3.36
TIMEDIA HRS SCORING	(8) (19	3,5 9)(-	<u>''_</u>		_

not score the air route unless an observed release is known to have occurred.

The scoring in above steps is based on the following default scores:

1: the sum of the scores for net precipitation, permeability, and physical state is 7.

2: the groundwater use is for drinking and the score used is 9.

- the sum of the scores for slope/terrain, rainfall and physical state is
- 4: the sum of the scores for surface water use and distance to sensitive environments is 9.

If these assumptions are known to be substantially incorrect, complete an HFS scoring sheet.

Pacility Name: Richmond Ice Company
Location: Richard Ky. 816 Heath Street
DA kegion: A
Person(s) is Chaige of the Pacility: Marsh Orwtenburger
Maylin William
Name of Reviewer: J. Maybrier Date: 07-21-77
General Description of the Facility:
(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)
· A pond behind the Richmond Ice Company was
Filled in with gerbere beginning in 73 until 78, Oil
was noted on edge of pond on a April 3, 1973
5. the visit In May 1978 the pind and garbore was
graded and covered with soil.
Scores: SH = 7.77 (Sgw = 9.42 Sgw = 4.20 Sgw = 29.49 ) Showed Release  Release
Spc = 41.67 observed release
-DC - 1101 appendes lekese

. Figure 1

#### HRS COVER SHEET

		Ground Wate	r Route Work	Sheet			
	Rating Factor	Assigne (Circle	d Value One)	Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release	0	45	1		45	3.1
	If observed release is gir if observed release is gir	,					
2	Route Characteristics Depth to Aquifer of Concern	0 1 🕭	3	2	4		3.2
	Net Precipitation Permeability of the Unsaturated Zone	0 1 2	6	13	2	3	
	Physical State	0 1 2 Total Route Cha		ore 1	3	15	
3	Containment	0 1 2	<b>3</b>	1	3	3.	3.3
4	Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity	0_3 6 0 1 2	(9) 12 15 18 3 4 5 6	7 8 1	9 9	10	3.4
		Total Waste Chi	aracteristics Sc	ore	1010	26	
6	Targets Ground Water Use Distance to Nearest Well / Population Served	0 1 0 4 12 16 1 24 30 3	2 3 10 8 20 2 35 40	3 5	6 6	9 •	3.5
		Total Tar	rgets Score		12 1	49	]
8		ty 1 x 4 x [ / 2 x 3 x 4	5 ] × 5		5400 3960	57,330	
7	Divide line 6 by 57,3	30 and multiply by	100	Sgw=		Obse- Relea	se

GROUND WATER ROUTE WORK SHEET

# DRAFT

	Surface Water	r Route Work S	inest			
Rating Factor	Assigne (Circle		Multi- plier	Score	Max. Score	Ref. (Section)
Observed Release	0	45	1		45	4.1
If observed release is give						
Route Characteristics Facility Slope and Intervention	ening 0 (f) 2	3	1	1	. 3	4.2
1-yr. 24-hr. Rainfall Distance to Nearest Surf. Water		Ø	2	2 6 3	. 6	
Physical State	0 1 2 Total Route Cha	<del></del>	1 re	12	15	
Containment	0 1 2	<u> </u>	1	3	3	4.3
Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity	0 3 60	9 12 15 18 3 4 5 8 7	8 1	9 9	. 18 . 8	4.4
	Total Waste Cha	racteristics Sco	re	10 '0	26	
Targets Surface Water Use Distance to a Sensitive Environment Population Served/Distan	0 1 ( (5) 1 (c) 1 (D) 4	② 3 2 3 6 8 10	3 2	000	6	4.5
to Water Intake Downstream	12 16 1 24 30 1	18 20 32 35 40				
	Total Targ	gets Score		6.6	55	
		1		2700		
If line 1 is 45, multiply If line 1 is 0, multiply	1 × 4 × 5 2 × 3 × 4			2160		rved

SURFACE WATER ROUTE WORK SHEET

# DRAFT

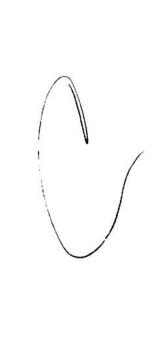
	Air Route Work Sheet					1
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
Observed Release	0 45	1	45	45	5.1	
Date and Location:						
Sampling Protocol:						
if line 1 is 0, the Sa if line 1 is 45, then	= 0. Enter on line 5 . proceed to line 2 .					
Waste Characteristics Reactivity and	0 1 2 🔊	,	3	3	5.2	かん
Incompatibility Toxicity	500 W 70000 <del>-0</del> 00	(70)	6	,		2
Hazardous Waste Quantity	0 1 3 3 0 0 2 3 4 5 6 7	8 1	五	8		
	Total Waste Characteristics Scon	•	10	20		$\left\{ \right.$
3 Targets			10		5.3	i
Population Within 4-Mile Radius	0 9 12 15 18 21) 24 27 30	1	_21	30	3.3	1
Distance to Sensitive	0 1 2 3	2	_ <u> </u>	•		1
Environment Land Use	0123	1		3		
10 Page 1						1
n	Total Targets Score		23	39	]	
Multiply 1 x 2 x			23 2949	39		

FIGURE 9 AIR ROUTE WORK SHEET

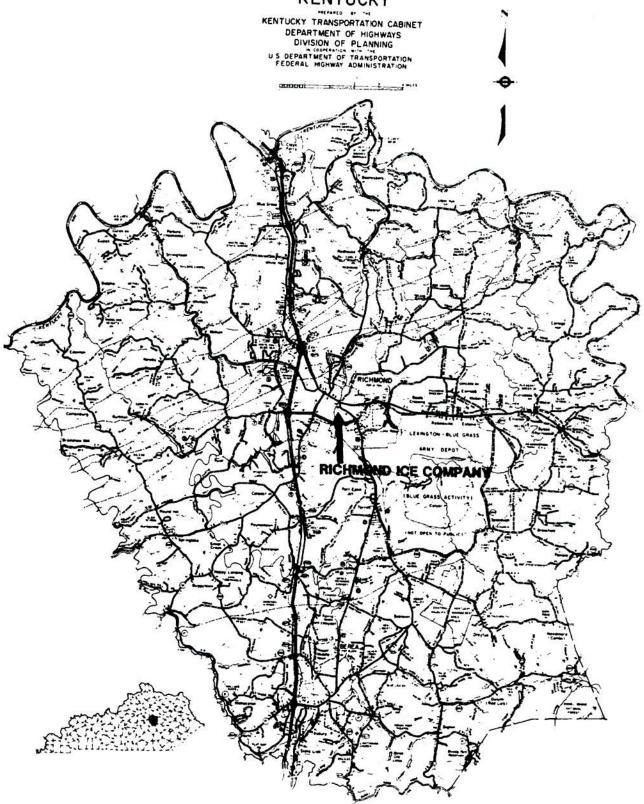
	Observed Release	S. observe	Observed 2	No Observed
Groundvater Route Score (Sgw)	9.42	6.91	88.74	47.75
Surface Water Route Score (Sgw)	4.20	3,36	17.64	11.28
Air Route Score (Sa)	29.49		869.60	
$s_{gw}^2 + s_{sw}^2 + s_a^2$				59.03
$\sqrt{s_{gv}^2 + s_{gv}^2 + s_{g}^2}$		/////		7.68
$\sqrt{s_{gu}^2 + s_{gu}^2 + s_a^2} / 1.73$			1	18.05
Figure 16	***************************************		ii	4,44

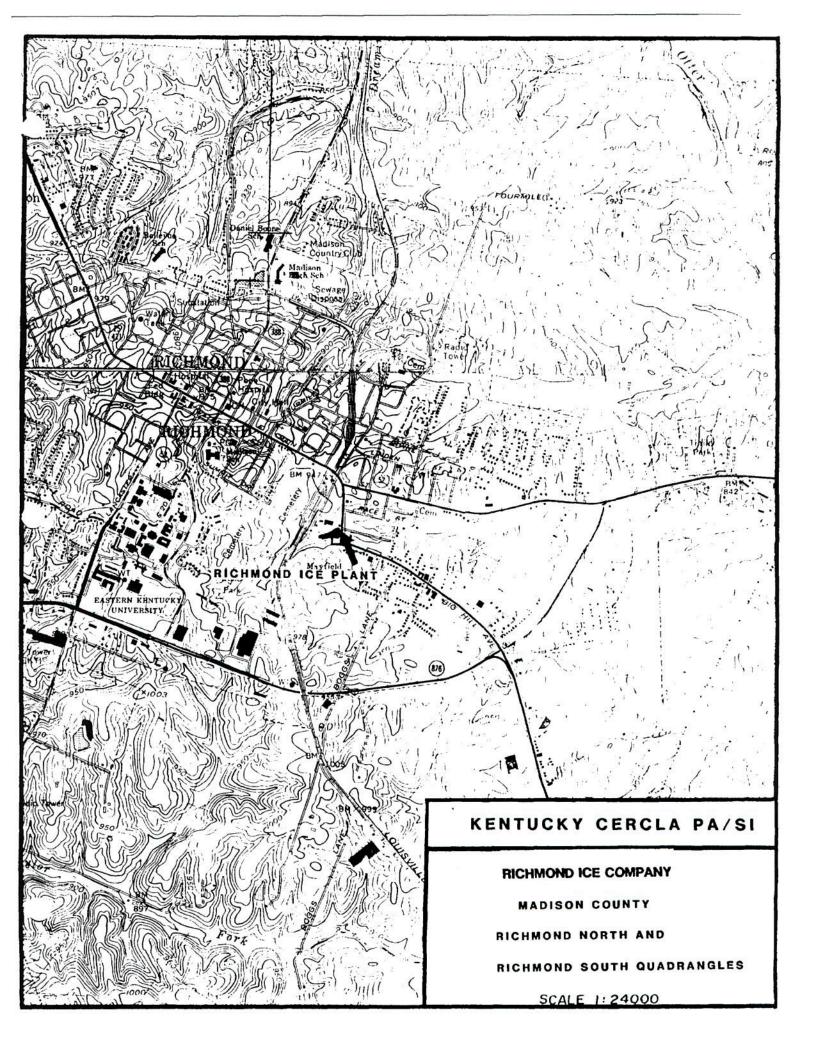
Figure 10
WORKSHEET FOR COMPUTING S

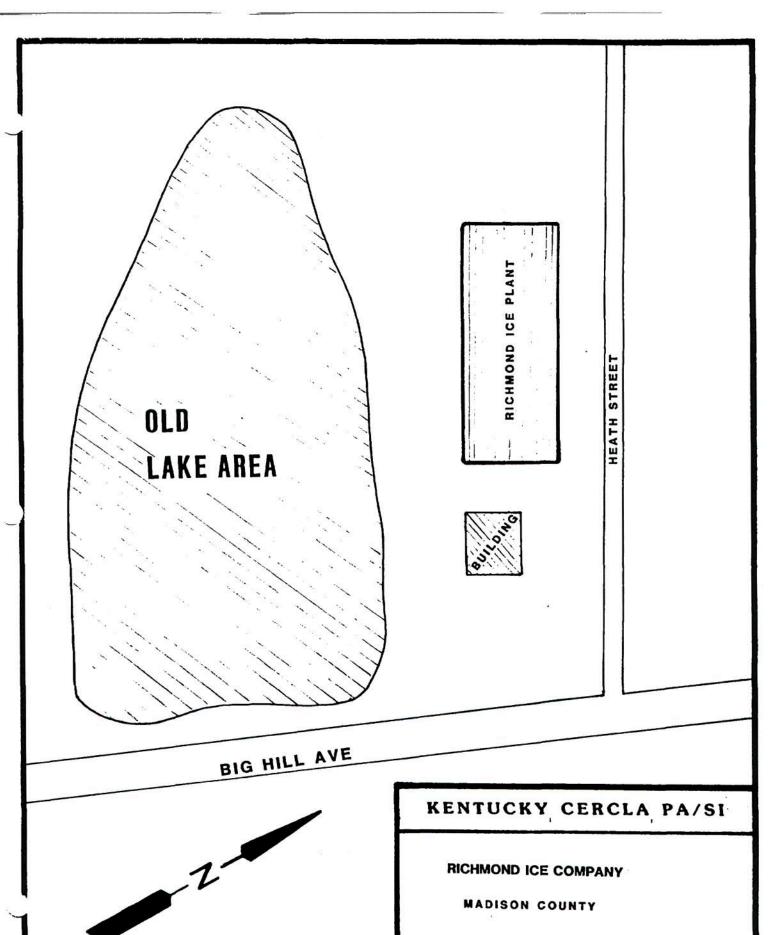
		Direct C	ontact Work She	et				
	Rating Factor		ned Value de One)	Multi- plier	Score	Max. Score	Ref. (Section)	
0	Observed Incident	0	45	1		45	8.1	
	If line 1 le 45, pr							
2	Accessibility	0 1 3	<b>D</b>	1	3	3	8.2	
3	Containment	0 (1	D	1	15	15	8.3	
4	Waste Characteristic Toxicity	0 1(1	D3	5	10 10	18	8.4	
(5)	Targets Population Within a 1-Mile Radius		2 3 4 🕦	4	25 25	20	8.5	21,907 res.d. a 1 m
	Distance to a Critical Habitat	<b>9</b> 1 :		•	00	12		of tre
								800
	3							
	. [	Total To	argets Score			32	1	
<u></u>		ultiply 1 x 4 x			20 20 9000 9000	21,600		
7	Divide line 6 by	21,800 and multiply by	100	\$pc -	100000		incident	1
			GURE 12	Spe=		N	ncident	]



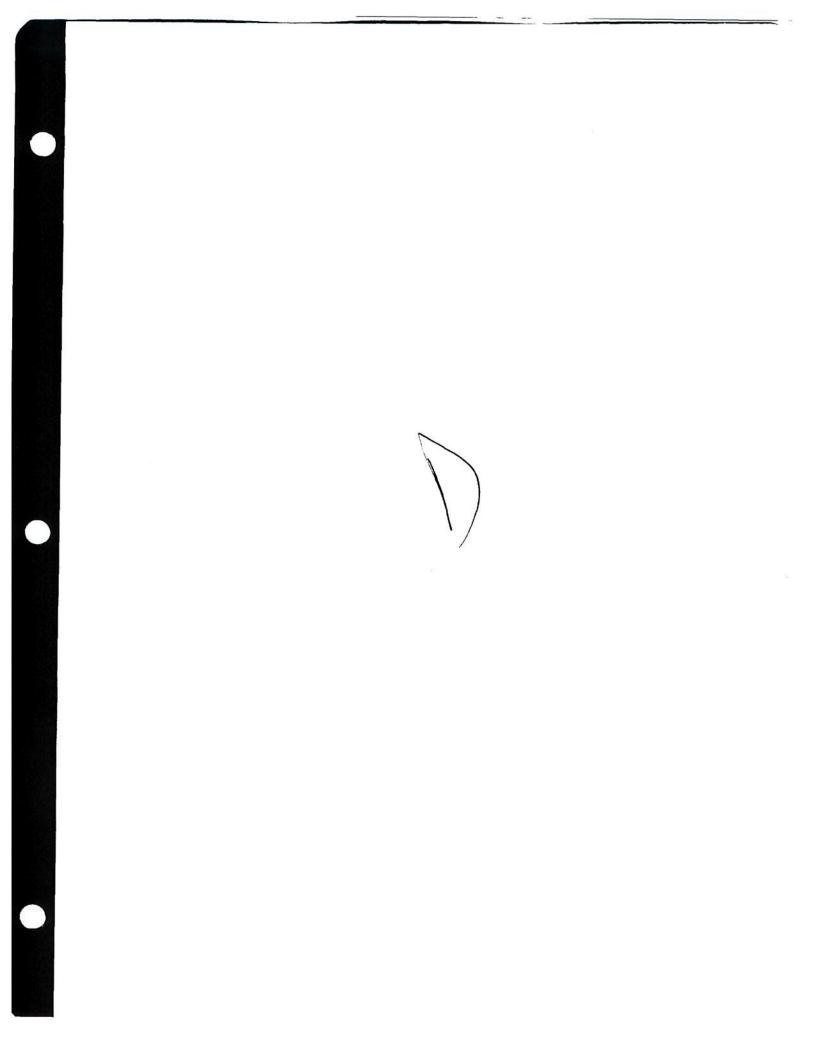








NOT TO SCALE



#### MEMORANDUM

April 4, 1973

4.1

TO:

Jerry Hurst, Director

Field Program

Division of Solid Waste

FROM:

Theodore F. Gibson, P. H. Rep. II.

Training Program

Division of Solid Waste

SUBJECT:

Investigation of Complaint at Richmond Ice Plant

On April 3, 1973, Mr. Larry Campbell, Madison County Sanitarian, and I went to the Richmond Ice Plant to investigate a report that pollutants were being dumped into a small lake in an effort to fill it.

This is definitely the case. Part of the lake's bank was black where the oil had settled and there was a small oil slick near the bank. Part of the bank was still wet from some sort of slimy substance that had been dumped into the water.

We spoke to Mr. Ben Robinson, owner of the Richmond Ice Plant, and he stated that dirt and broken up concrete were being placed in the lake with his permission, but the oil and other refuse was not.

This lake appears to be fed by a small stream and I do not see how it can be filled completely. Mr. Robinson spoke of installing some piping to allow the stream to flow, but he seemed insistent that the filling operation would continue.

I recommend that if this lake is to be filled, only dirt be used, and use of all other materials be stopped.

Theodore F. Gibson, P.H. Rep. II.

Training Program

TFG:1w

cc: Mr. Ben Robinson c/o Richmond Ice Plant

Madison County Health Dept.

Water Pollution

#### MEMORANDUM

May 10, 1978

TO:

Ross Singleton, Area Supervisor

FROM:

Marsha Denton, PHR II

SUBJECT: Madison County #076.01D, Richmond Ice Company

On April 25, 1978, Lloyd Funkhouser and I inspected the above named dump in Richmond, Kentucky. It is located behind the Richmond Ice Company at Big Hill and Heath Streets.

The dump had been graded recently and covered. But the perimeters of the dump need a lot of work. Also new dumping had begun at the front of the dump.

We talked to Mr. Ben Robinson, the owner. He said he had been filling in for six years, that the dump used to be a pond from which the company got the ice they sold. I told him he was in violation of the law and gave him a permit application.

MD: mg

cc: Jim Denton

Madison County Health Dept.



JULIAN M. CARROLL

COMMONWEALTH OF KENTUCKY

DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION

BUREAU OF ENVIRONMENTAL PROTECTION

JOHN A. ROTH

COMMISSIONER

FRANKFORT, KENTUCKY 40601

May 9, 1978

Mr. Ben Robinson Richmond Ice Company Heath Street Richmond, Kentucky 40475

Dear Mr. Robinson:

On April 25, 1978, field staff from our division inspected a tract of land belonging to the Richmond Ice Company located in Richmond at Big Hill Avenue and Heath Street behind the ice company. This land is being used for disposal of construction debris, junk and household waste and appears to be in violation of the Kentucky Solid Waste Regulations.

This problem can be alleviated by either removing said waste and depositing it in a state approved landfill or by covering the waste with a minimum of two feet of soil to prevent its recurrence.

I would appreciate a written reply from you stating your intentions and a time schedule for correcting this apparent violation. Your reply should be received in this office no later than May 24, 1978. If you have any questions concerning this matter, or if this office may be of assistance, please feel free to contact me.

Sincerely,

Caroline Patrick Haight, Chief Non-Hazardous Waste Management Section Division of Hazardous Material & Waste

Management

CPH: MD:mg

cc: Ross Singleton, Area Supervisor Marsha Denton, Inspector

magert Mell Assestate Soutesty Decision Jerne L. Baret

Statestaly yours,

of cerrocting these violations. Bottly this office to writing of your intentions and achedule

. 63 18

Shariff's office in affect to also mentherized desping at the copy of this latter, I am sotitying the State rolles and the Gounty hibited and thes permission to dusp these be vithdrawn. By may all te to highly recommended that eccess to this area be pre-

ere also being violated. Attached to a copy of these laws. 211.717 and 211.992. Turchermore, cortain sections of K.R.S. 433 and hepulations," of which you should rood K.R.S. 211,707, 211,713, eved insequit atook hiles viewing" to type a at becelved

eveh action to the violation of the law and must coose immediately. a body of unter. This letter is to inform you, as property esser, that

les Plant. It is ferther noted that this wate is being draped into becomished at an galgeolod tyraspers no to becomela gaine at answe biles ands sollte aids to solumnias out at adgress meet and all

1218 146E

Attention: Ben Robinson

Montucky

Smalf onl houselals

ELGI 18, 1979A

May 23, 1973

Madison County Health Department Route 3, Box 11A Bogge Lane Richmond, Kentucky 40475

ATDI: Dale Marcum

Dear Sir:

This letter is in reference to the application of the Richmond Ice Plant to fill in the lake just off of Big Hill Avenue.

In the application there was no mention as to what types of materials would be used to fill the lake. In your cover letter, you stated "If dirt only is gradually used to fill this lake, then it will eliminate the muisance of odor and breeding of vectors." I agree with that statement, but there was no mention of "Mirt only" being used to fill in the lake. I assume this was a verbal understanding between you and the Ice Flant.

If it is true that the intent to fill with dirt only then this office does not even require a permit. Dirt is not considered a form of solid weste and therefore, this operation would not be one of solid waste but in fact a grading operation.

However, I might add that from experience I have learned that any type of filling operation seems to attract garbage. Since the property owner is responsible for the condition of the land, the Richmond Ise Plant will have to control this operation in order to prevent any type of waste being disposed of at the site.

Again, I want to say that a persit from this office is not required if dirt is all that is to be used to fill the lake. If any other material is to be used, the application should be resubsitted along with a list of the types of materials to be disposed of.

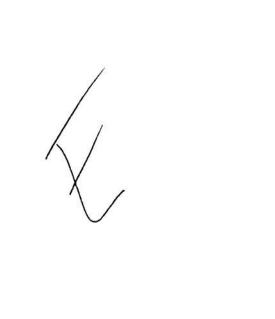
If this office can be of any sesistance, do not hesitate to contact us.

Sincerely, Aurat

Jersy L. Hurst, Associate Saultary Engineer Field Program

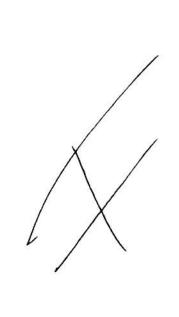
JLH av

ec: Richmond Ice Company



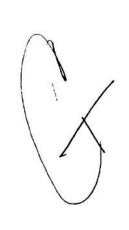
# UNSCANNABLE MEDIA (PHOTOGRAPHS)

160



(NOTE: AVERAGE PRODUCTION INCLUDES DEC 1985 THRU NOV 1986 DATA)

PWS IO	SYSTEM NAME !	PRIME SRCE	POPULATION	AVG PROD	NFSIGN CAP	30u	TYPE	FORMATION: SOURCE NAME	AVAIL	LAT	LUNG
0750907	SACRAMENTO WATER WORKS	Р	1,539	. 0	0	01	Р	MUHLENBURG WD#3	Р	000000	000000
COUNTYL	MADISON										
0760030	BEREA COLLEGE WATER DEPARTMENT	8	10.098	1,382,636	3,000,000	01	s	COWMELL LAKE	P	0373245	0841437
0762058	CLAYS FERRY CAMPGROUND	G	300	680	6.000	01	G	WELL	P	000000	000000
0762059	COL D J WILLIAMS PISTOL RANGE	G	25	336	•	01	G	WELL	P	•	
0762637	DEPARTMENT OF THE ARMY	3	700	131,877	720,000	01	8	LAKE VEGA	P	000000	000000
0760224	KINGSTON-TERRILL WATER DIST	P	4,125	0	0	01	P	RICHMOND CITY	P	000000	000000
0760672	KIRKSVILLE WATER ASSIC	Р	1,594	O	0	01	P	HICHMOND	P	0000000	000000
0760285	MILFORD WATER DISTRICT	Р	1,782	0	0	01	Р	RICHMOND CITY	P	000000	0000000
0760370	RICHMOND WATER/GAS/SEWER WORKS	3	16,698	4,244,994	6,000,000	01	3	KENTUCKY RIVER	P	0374705	084060
0760407	SOUTHERN MADISON WATER DIST	ρ	4,623	236,773	0	01	Р	HEREA WTR DEPT	P	000000	000000
0760441	WACO WATER DISTRICT	P	4,290	0	0	01	Р	RICHMOND CITY	ρ	000000	000000



#### POPULATION DATA DOCUMENTATION

RADIUS  Mile  Mile  Mile  Mile  Mile  Mile	MADISSAJ  HOUSE/BUILDING COUNT	POPULATION
Mile  Mile  Mile		POPULATION
1 Mile	1635	
		6213
2 Miles	5765	21,907
	7395	28,10/
3 Miles	7909	30,054
4 Miles	8091	30,746
HTODOLOGY:	map(s). These numbers are t factor of 3.8 persons per he	taken from U.S.G.S Topographic then multiplied by the conversion ousehold, as suggested in EPA's te Site Ranking System Users
	USGS 1952, Photoreused 1979, Mateure 1979, Mateure 1979, Rich 1965, " 1979, Rich 1965, " 1979, Unio	
MMENTS:		
1/2 2		

## POPULATION DATA DOCUMENTATION For Grandwater usage

NAME OF SITE:	- Richmond I	ie Plant	
COUNTY:	Madison		
RADIUS ł Mile	HOUSE/BUILDING COUNT	POPULATION	
⅓ Mile	. <i>.</i>	J	
1 Mile	S	0	•
2 Miles	13	50	
3 Miles	. 57	217	•
4 Miles	79	30 /	•
WEHTODOLOG	Y: House and building counts are map(s). These numbers are t factor of 3.8 persons per house Uncontrolled Hazardous Was Manual, to obtain populations.	then multiplied by the con ousehold, as suggested in the Site Ranking System	version EPA's
REFERENCES:	JSGS 1965, "	175, Moberly and 75 m 1771, Richmod Worth "" 1979, Richmod South," 1975, Union City (2012,"	<del>,                                     </del>
COMMENTS:			

#### SITE DISCOVERY FORM

#### Part 1: Information necessary to add a site to CERCLIS

ACTION: A	
EPA ID: KYD \$42943217	
SITE NAME: Richmond Ice Plant	SOURCE: (R=EPA, T=STATE)
STREET: Big Hill Avenue and Heath	CONG DIST: 05 (optional)
CITY: Richmond	ZIP: 40475 _
CNTY NAME: Madison	CNTY CODE: 151 (optional)
LATITUDE: _37 44' / 26" LONGITUDE:	84 / 17'/ 45" (optional)
INVENTORY IND: Y REMEDIAL IND: Y REMO	VAL IND: N FED FAC IND: N
RPM NAME; RPM PHO	NEI (EPA Project Officer
SITE DESCRIPTION: (optional)	POB 0x 266
Off Big Hill Avenue behind Richmo	nd Ice Plant
Part 2: Other site informat	ion
DATE SITE FIRST REPORTED: / REPORTED	BY:
REASON FOR LISTING:	
Questionable fill for small lake	Inspector observed oil slick and oil on banks-
other slimy substances dumped in	lake.
	,
,	
***************************************	

#### SITE DISCOVERY FORM

#### Part 1: Information necessary to add a site to CERCLIS

ACTION: A			
EPA ID:			
SITE NAME:	Richmond Ice Plant	SOURCE:	(R=EPA, T=STATE)
STREET:	Big Hill Avenue and Heath	CONG DIST: 05 (optional)	
CITY!	Richmond	ZIP: 40475 -	
CNTY NAME:	Madison	CNTY CODE: 151 (optional	,
LATITUDE: _	_37 44' / 26" LONGITUDE:	84 / 17'/ 45" (optional	.)
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RPM NAME; _	RPM PHON	Æ: (EPA	Project Officer
SITE DESCRI	PTION: (optional)		
	Off Big Hill Avenue behind Richmon	nd Ice Plant	
		₫	
		·	
	Part 2: Other site informat:	i a a	
<b>NATE</b> 8175 5	IRST	ion	
REPORTED:	/ / REPORTED	BY:	•
REASON FOR	LISTING:		
	Questionable fill for small lake-	Inspector observed oil slick a	and oil on banks-
	other slimy substances dumped in	Lake.	

